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APPLICATION NO.	ATION NO. FILING DATE FIRST NAMED IN		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/692,578	10/24/2003	Se-Ho Lee	5649-1194 9027			
20792 759	20792 7590 11/15/2005			EXAMINER		
MYERS BIGE PO BOX 37428	EL SIBLEY & SAJOVE	PHAM, LONG				
RALEIGH, NC		ART UNIT	PAPER NUMBER			
			2814			
			DATE MAIL ED: 11/15/2004	DATE MAILED: 11/15/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/692,57	8	LEE, SE-HO				
		Examiner		Art Unit				
		Long Pham	1	2814				
Period fo	The MAILING DATE of this communication r Reply	appears on the	cover sheet with the d	correspondence ad	ldress			
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING isions of time may be available under the provisions of 37 CF is included for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by steply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	G DATE OF TH R 1.136(a). In no even n. eriod will apply and will tatute, cause the appli	IS COMMUNICATION nt, however, may a reply be tir expire SIX (6) MONTHS from cation to become ABANDONE	N. nely filed the mailing date of this c ED (35 U.S.C. § 133).				
Status								
1)[]	Responsive to communication(s) filed on _							
,—	•	—— This action is no	on-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-10 and 24 is/are pending in the	application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	5) Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-3,5,7-10 and 24</u> is/are rejected.							
,	Claim(s) <u>4 and 6</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers							
	The specification is objected to by the Exar							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
	te of References Cited (PTO-892)		4) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449 or PTO/SI		Paper No(s)/Mail D 5) Notice of Informal I		O-152)			
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Rejections and/or objections as previously applied

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 2, 3, 5, 7, 8, 9, 10, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art (AAPA) of this application in combination with Sugaya (US patent 6,844,268).

See the office action dated 05/23/05 for the contents of the rejection.

Response to Arguments

Applicant's arguments filed 05/23/05 have been fully considered but they are not persuasive. See below.

In response the applicant's arguments on pages 5, 6, 7, 8, and 9, it is submitted that if a recess is formed in the bottom electrode and a dielectric layer or the interlayer dielectric layer is formed in the recess as taught by Sugaya and the phase changeable layer is formed on the interlayer dielectric layer, the recess would inherently extends beyond a boundary between the bottom electrode and the interlayer dielectric and a portion of the phase changeable layer would inherently protrude into the bottom electrode beyond the boundary. Further, it is submitted that the motivation for combining the teaching of Sugaya into the structure of AAPA is recited in the pending rejection.

Allowable Subject Matter

Claims 4 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on Mon-Frid, 10am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Long Pham

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Primary Examiner

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LP